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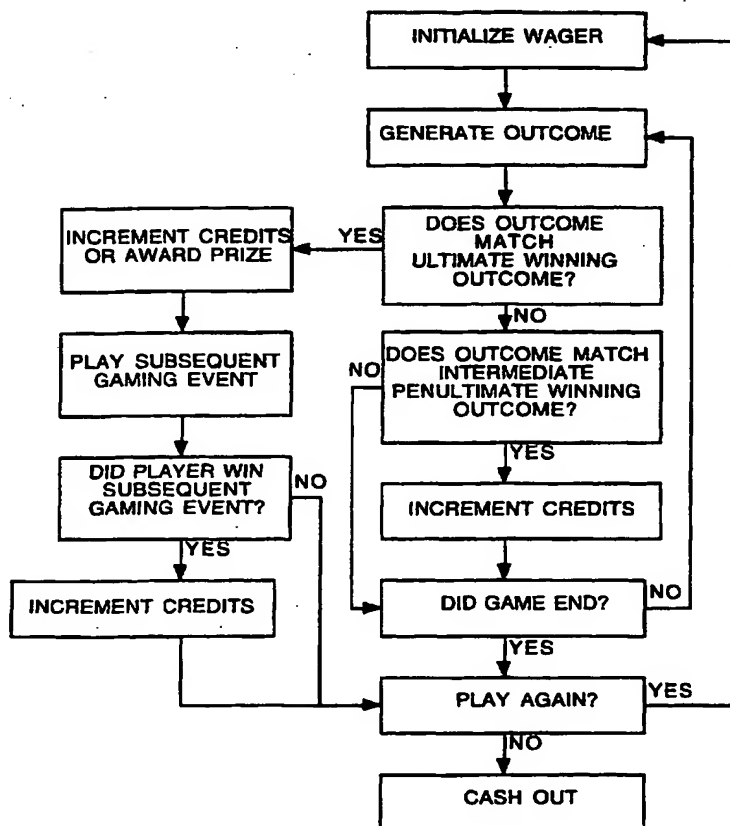
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[Continued on next page]

(54) Title: GAMING DEVICE AND METHOD



(57) Abstract: A method and device (10) for gaming, in which an initial game is played toward an ultimate winning outcome, but with several intermediate winning outcomes possibles before achieving the ultimate winning outcome. Several of these games may be played concurrently on the same device (10) in pursuit of the ultimate winning outcome. Achieving the ultimate winning outcome may result in an award or in a subsequent gaming event. Play of a single gaming session need not take place in one sitting; the state of the current session may be saved, dispensed to the player in a physical form, and resumed at a later time.

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Published:

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Gaming Device and Method

Technical Field

The following invention is generally related to instrumentalities and methodologies in gaming devices. More specifically, the instant invention is directed to a gaming device having an ultimate winning outcome which allows the player to receive an award or to participate in a subsequent gaming event, and several intermediate winning outcomes in which the player is eligible for an award. Such a gaming device may be utilized as a single-player or a tournament play device. Most specifically, the instant invention is directed to such a gaming device which may engage in several gaming sessions at once, on which the state of play may be saved and dispensed to the player, play to be continued at a later time.

Background Art

Several games exist in the prior art that allow a player to play a game toward an ultimate winning outcome. These games, however, are quick to stagnate, as the player tires of repeatedly engaging in the same gaming proposition. In addition, such games are often over quickly, which does little to retain the player's interest. Games also exist in which a secondary gaming proposition is offered to the player if certain conditions are met. These may help to retain interest, but the duration of these games continues to be rather short. Players are more likely to walk away from such a game than if a game were long enough for a player to realize that more of a personal stake in gaming were involved.

Disclosure of Invention

The present invention is distinguishable over the prior art in a multiplicity of ways. For example, the instant invention provides a device and method for gaming in which a player is rewarded not only for an ultimate winning outcome, but also for any of several possible interim winning outcomes. In this way, the player is potentially rewarded multiple times on the road to the ultimate winning outcome. The reward for the ultimate winning outcome may be an award of credits or a complimentary item or items, or it may consist of a subsequent gaming proposition. This method and device is suitable for tournament play in addition to a single-player proposition.

In addition, this invention allows a player to engage in several gaming sessions concurrently, retaining player interest. Play of the game may be interrupted at any time; the state of play is then saved and the player may resume the same game or set of

games at a future time. The state of play is saved and dispensed to the player, who may choose to continue the session later at that machine, or at any similar machine that allows such an event.

Industrial Applicability

5 The industrial applicability of this invention shall be demonstrated through discussion of the following objects of the invention.

 Accordingly, it is a primary object of the present invention to provide a new and novel device and method for gaming, in which a player is rewarded not only for an ultimate winning outcome, but for any of several intermediate winning outcomes.

10 It is a further object of the present invention to provide a device and method as characterized above which provides an award or a subsequent gaming proposition if the player achieves the ultimate winning outcome.

 It is a further object of the present invention to provide a device and method as characterized above which allows a player to engage in several gaming sessions
15 concurrently.

 It is a further object of the present invention to provide a device and method as characterized above which provides the player with an option to save the state of the current game and resume playing at a future time.

 It is a further object of the present invention to provide a device and method as
20 characterized above which may be utilized not only as a single-player gaming proposition, but also as a gaming proposition suitable for tournament play.

 Viewed from a first vantage point, it is an object of the present invention to provide a method for gaming, the steps including: making a wager to enable the gaming device, evoking chance means to produce a plurality of outcomes concurrently,
25 displaying the plurality of outcomes, comparing each of the plurality of outcomes to an ultimate winning outcome, triggering a subsequent event if any of the plurality of outcomes matches the ultimate winning outcome, determining whether, if none of the plurality of outcomes matches the ultimate winning outcome, any of the plurality of outcomes matches an intermediate winning outcome, awarding credits if any of the
30 plurality of outcomes matches an intermediate winning outcome, continuing to evoke chance means to produce subsequent pluralities of outcomes until said ultimate winning outcome is produced or until said subsequent outcomes are no longer possible, and saving the current set of said outcomes and said subsequent outcomes on encoded moveable media, said encoded moveable media dispensed to the player for later use.

Viewed from a second vantage point, it is an object of the present invention to provide a gaming device, comprising, in combination: a display, a processor operatively coupled to said display, including random output means appearing on said display, resulting in a plurality of outcomes, means for comparing each of said plurality of outcomes to a set of winning outcomes, said set of winning outcomes including an ultimate winning outcome and a plurality of intermediate winning outcomes, award means evoked if any of said plurality of outcomes matches one of said winning outcomes, including means to trigger a subsequent gaming event if any of said plurality of outcomes matches said ultimate winning outcome, continuance means for generating subsequent pluralities of outcomes, and saving means to store the state of play on encoded moveable media, including means to dispense said encoded moveable media for use at a later time.

These and other objects will be made manifest when considering the following detailed specification when taken in conjunction with the appended drawing figures.

Brief Description of Drawings

Figure 1 is a flowchart of the methodology according to the present invention.

Figure 2 is a depiction of the apparatus associated therewith.

Figure 3 is a depiction of the display screen shown in figure 2, depicting a plurality of randomly-numbered positions in a row and column (RXC) matrix.

Figure 4 is a 3D view of the display screen.

Best Mode(s) for Carrying Out the Invention

Considering the drawings, wherein like reference numerals denote like parts throughout the various drawing figures, reference numeral 10 as shown in FIG. 2 is directed to the device according to the present invention.

In its essence, the device 10 includes a housing 16 which supports a visual display 2, preferably a video monitor, therewithin. The display 2 may include a window 8 for special messages or for incrementing counting of credits accumulated by the player. The device also includes an LED or other readout 4 for prompting the player and can provide similar verbiage as the window 8 or in lieu thereof, to stimulate the player. The device includes an inlet 6 for the reception therein for coins, currency or the like to auger in the inception of play. A separate slot 7, capable of accepting and dispensing encoded moveable media, is also present. A plurality of decision-making buttons 12 are located on the face of the apparatus 10, preferable below the display 2 and a pull handle 14 can be used to initiate play or as an alternative to supplement the decision-making

buttons 12. A coin hopper 18 or ticket printer may be included to effectuate an output of an award due the player. The device 10 may have a top portion 32 with a display thereon having a motif correlative with the game to be played and can include a payable. A plurality of speakers 34 may be included on the device for aural interaction with the player. The apparatus also includes a processor P coordinating all functions and a random number generator G operatively coupled thereto for generating outcomes.

More specifically, and with reference to FIG. 3, greater details with respect to the video display 2 can be explored. In the preferred embodiment, the display 2 features a plurality of randomly-numbered positions 20 in a row and column (RXC) matrix 21. Numbers for play appear in box 22 and are randomly generated by random number generator G for play on the matrix 21. Preferably, the matrix defines a 5 X 5 array, correlative of BINGO, and above row one depicts the letter "BINGO", defining, with positions 20 an alpha numeric display. The display could also be three dimensional (3D) (FIG. 4).

Thus, with BINGO, all positions 20 are initially nominated like a BINGO card. As "called" numbers appear in box 22, matches with positions 20 are highlighted.

Referring to FIG. 1, the flow chart associated with the apparatus of FIGS. 2 and 3 can be explored. In a single-player embodiment, the player engages in a gaming proposition using the display pictured of FIG.3, on which a matrix 21 composed of randomly-numbered positions 20 is present. Randomly-generated numbers 22 appear on the display 2 and are compared to the numbers 20 on the matrix 21; if the numbers match, then that position appears bolded, highlighted or "covered" on the matrix 21. Each match (or non-match) can be a gaming proposition. The ultimate, maximum winning outcome in this embodiment is to cover all of the positions in the matrix. Before the entire matrix 21 is filled, there are opportunities to cover positions 20 in intermediate winning combinations, such as covering a certain number of positions 20 in a certain orientation, such as all in a row, all in a column, "four corners", etc. correlative of BINGO winning orientations. The player is awarded for these intermediate winning combinations as well as any match. Randomly-generated numbers continue to appear in box 22 on the display 2 until a predetermined number of numbers have been generated or until another preset event occurs, such as the expiration of time or predetermined number of wagers. If the player has not filled the matrix 21 at this point, the player loses, and has the option to play again, or to quit and cash out.

If the player succeeds in covering all the spaces in the matrix, an award of credits or other complimentary items is given. A player can increase enjoyment by playing multiple BINGO cards simultaneously on the display 2. Alternatively, or in addition, the player is then eligible to engage in a subsequent gaming proposition. These subsequent gaming propositions may take the form of "racing-style" events such as a simulated car or horse race or other gaming simulations such as Keno. The player may be awarded further for winning outcomes in these subsequent gaming propositions.

Players may save games which are not yet finished by using one of the decision-making buttons 12 to indicate that saving is desired. The device would then save the state of the game in present state of play, preferably via encoded moveable media such as a smart card or a card having a readable, writeable magnetic strip, and dispense it to the player through the slot 7. The player may take this saved game card and insert it into any compatible device at a future time, which would allow the player to continue the saved game at its present state when the player retired.

In a tournament situation, players would concurrently engage in the initial gaming proposition in competition with one another for example, as a function of time played or wagers made. Players could be eligible for intermediate prizes in this situation, even if they did not achieve the ultimate winning outcome. If no player in the tournament covered the entire BINGO card during the allotted tournament rule set, best performance would still be rewarded.

Moreover, having thus described the invention, it should be apparent that numerous structural modifications and adaptations may be resorted to without departing from the scope and fair meaning of the instant invention as set forth hereinabove and as described hereinbelow by the claims.

Claims

I Claim:

Claim 1 - A method for gaming, the steps including:

making a wager to enable the gaming device,

evoking chance means to produce a plurality of outcomes concurrently,

displaying the plurality of outcomes,

comparing each of the plurality of outcomes to an ultimate winning outcome,

triggering a subsequent event if any of the plurality of outcomes matches the ultimate winning outcome,

determining whether, if none of the plurality of outcomes matches the ultimate winning outcome, any of the plurality of outcomes matches an intermediate winning outcome,

awarding credits if any of the plurality of outcomes matches an intermediate winning outcome,

continuing to evoke chance means to produce subsequent pluralities of outcomes until said ultimate winning outcome is produced or until said subsequent outcomes are no longer possible, and

saving the current set of said outcomes and said subsequent outcomes on encoded moveable media, said encoded moveable media dispensed to the player for later use.

Claim 2 - The method of claim 1 wherein said chance means produce randomly-generated numbers corresponding to a randomly-numbered playfield oriented in a row-and-column (RXC) matrix in which said ultimate winning outcome consists of matching all of said randomly-generated numbers to said randomly-numbered playfield.

Claim 3 - The method of claim 2 wherein a plurality of said intermediate winning outcomes are possible by matching a subset of the numbers in said randomly-numbered playfield to said randomly-generated numbers.

Claim 4 - The method of claim 1 wherein said subsequent event is comprised of the awarding of credits.

Claim 5 - The method of claim 1 wherein said subsequent event is comprised of the awarding of a plurality of complimentary items other than credits.

Claim 6 - The method of claim 1 wherein said subsequent event is comprised of a subsequent gaming event.

Claim 7 - The method of claim 1 wherein said subsequent event comprises:

awarding credits, and
engaging in a subsequent gaming event.

Claim 8 - The method of claim 7 wherein said subsequent gaming event comprises:

5 allowing a player to select a subset of outcomes from a set of possible outcomes,

generating outcomes,

comparing the selected subset of outcomes with the generated outcomes,
and

10 awarding credits according to a payable for matches between the selected subset of outcomes and the generated outcomes.

Claim 9 - The method of claim 7 wherein said subsequent gaming event comprises means for simulating a racing event.

Claim 10 - The method of claim 2 wherein said subsequent event comprises:

15 awarding credits, and

engaging in a subsequent gaming event.

Claim 11 - The method of claim 10 wherein said subsequent gaming event comprises:

20 allowing a player to select a subset of outcomes from a set of possible outcomes,

generating outcomes,

comparing the selected subset of outcomes with the generated outcomes,
and

25 awarding credits according to a payable for matches between the selected subset of outcomes and the generated outcomes.

Claim 12 - The method of claim 10 wherein said subsequent gaming event comprises means for simulating a racing event.

Claim 13 - The method of claim 3 wherein said subsequent event comprises:

awarding credits, and

30 engaging in a subsequent gaming event.

Claim 14 - The method of claim 13 wherein said subsequent gaming event comprises:

allowing a player to select a subset of outcomes from a set of possible outcomes,

35 generating outcomes,

comparing the selected subset of outcomes with the generated outcomes,
and

awarding credits according to a payable for matches between the selected subset of outcomes and the generated outcomes.

5 Claim 15 - The method of claim 13 wherein said subsequent gaming event comprises means for simulating a racing event.

Claim 16 - The method of claim 1 wherein only a single player is involved.

Claim 17 - The method of claim 1 wherein a plurality of players may participate in concurrent gaming sessions in competition with each other.

10 Claim 18 - The method of claim 2 wherein said RXC matrix is three dimensional.

Claim 19 - A gaming device, comprising, in combination:

a display,

a processor operatively coupled to said display, including random output means appearing on said display, resulting in a plurality of outcomes,

15 means for comparing each of said plurality of outcomes to a set of winning outcomes, said set of winning outcomes including an ultimate winning outcome and a plurality of intermediate winning outcomes,

award means evoked if any of said plurality of outcomes matches one of said winning outcomes, including means to trigger a subsequent gaming event if any of
20 said plurality of outcomes matches said ultimate winning outcome,

continuance means for generating subsequent pluralities of outcomes, and

saving means to store the state of play on encoded moveable media, including means to dispense said encoded moveable media for use at a later time.

AMENDED CLAIMS

[received by the International Bureau on 01 February 2002 (01.02.02);
original claims 1, 2, 9 and 18 amended; original claim 8 cancelled; new claims 20 -25 added;
remaining claims unchanged (6 pages)]

Claim 1 - A method for gaming, the steps including:

enabling the gaming device upon receipt of a wager,
evoking chance means to produce a plurality of outcomes concurrently,
displaying the plurality of outcomes,
comparing each of the plurality of outcomes to an ultimate winning
outcome,
triggering a subsequent event if any of the plurality of outcomes matches
the ultimate winning outcome,
determining whether, if none of the plurality of outcomes matches the
ultimate winning outcome, any of the plurality of outcomes matches an intermediate
winning outcome,
awarding credits if any of the plurality of outcomes matches an
intermediate winning outcome,
continuing to evoke chance means to produce subsequent pluralities of
outcomes until said ultimate winning outcome is produced or until said subsequent
outcomes are no longer possible, and
saving the current set of said outcomes and said subsequent outcomes on
encoded moveable media, said encoded moveable media dispensed to the player for
later use.

**Claim 2 - The method of claim 1 wherein said chance means includes producing
randomly-generated numbers corresponding to a randomly-numbered playfield
oriented in a row-and-column (RXC) matrix in which said ultimate winning outcome
consists of matching all of said randomly-generated numbers to said randomly-
numbered playfield.**

Claim 3 - The method of claim 2 wherein a plurality of said intermediate winning outcomes are possible by matching a subset of the numbers in said randomly-numbered playfield to said randomly-generated numbers.

Claim 4 - The method of claim 1 wherein said subsequent event is comprised of the awarding of credits.

Claim 5 - The method of claim 1 wherein said subsequent event is comprised of the awarding of a plurality of complimentary items other than credits.

Claim 6 - The method of claim 1 wherein said subsequent event is comprised of a subsequent gaming event.

Claim 7 - The method of claim 1 wherein said subsequent event comprises:
awarding credits, and
engaging in a subsequent gaming event.

Claim 9 - The method of claim 7 including configuring said subsequent gaming event by simulating a racing event.

Claim 10 - The method of claim 2 wherein said subsequent event comprises:
awarding credits, and
engaging in a subsequent gaming event.

Claim 11 - The method of claim 10 wherein said subsequent gaming event comprises:

allowing a player to select a subset of outcomes from a set of possible outcomes,

generating outcomes,

comparing the selected subset of outcomes with the generated outcomes,

and

awarding credits according to a payable for matches between the selected subset of outcomes and the generated outcomes.

Claim 12 - The method of claim 10 wherein said subsequent gaming event comprises means for simulating a racing event.

Claim 13 - The method of claim 3 wherein said subsequent event comprises:

awarding credits, and

engaging in a subsequent gaming event.

Claim 14 - The method of claim 13 wherein said subsequent gaming event comprises:

allowing a player to select a subset of outcomes from a set of possible outcomes,

generating outcomes,

comparing the selected subset of outcomes with the generated outcomes, and

awarding credits according to a payable for matches between the selected subset of outcomes and the generated outcomes.

Claim 15 - The method of claim 13 wherein said subsequent gaming event comprises means for simulating a racing event.

Claim 16 - The method of claim 1 wherein only a single player is involved.

Claim 17 - The method of claim 1 wherein a plurality of players may participate in concurrent gaming sessions in competition with each other.

Claim 18 - The method of claim 2 including forming said RXC matrix as a three dimensional array.

Claim 19 - A gaming device, comprising, in combination:

a display,

a processor operatively coupled to said display, including random output means appearing on said display, resulting in a plurality of outcomes,

means for comparing each of said plurality of outcomes to a set of winning outcomes, said set of winning outcomes including an ultimate winning outcome and a plurality of intermediate winning outcomes,

award means evoked if any of said plurality of outcomes matches one of said winning outcomes, including means to trigger a subsequent gaming event if any of said plurality of outcomes matches said ultimate winning outcome,

continuance means for generating subsequent pluralities of outcomes, and

saving means to store the state of play on encoded moveable media, including means to dispense said encoded moveable media for use at a later time.

Claim 20 - A method for gaming, the steps including:

enabling the gaming device upon receipt of a wager;

evoking chance means to produce a plurality of outcomes concurrently;

displaying the plurality of outcomes;

comparing each of the plurality of outcomes to an ultimate winning outcome;

triggering a subsequent event if any of the plurality of outcomes matches the ultimate winning outcome, wherein said subsequent event comprises:

awarding credits, and

engaging in a subsequent gaming event, wherein said subsequent gaming event comprises:

allowing a player to select a subset of outcomes from a set of possible outcomes,

generating outcomes,

comparing the selected subset of outcomes with the generated outcomes, and

awarding credits according to a payable for matches between the selected subset of outcomes and the generated outcomes;

determining whether, if none of the plurality of outcomes matches the ultimate winning outcome, any of the plurality of outcomes matches an intermediate winning outcome;

awarding credits if any of the plurality of outcomes matches an intermediate winning outcome;

continuing to evoke chance means to produce subsequent pluralities of outcomes until said ultimate winning outcome is produced or until said subsequent outcomes are no longer possible; and

saving the current set of said outcomes and said subsequent outcomes on encoded moveable media, said encoded moveable media dispensed to the player for later use.

Claim 21 - The method of claim 7 including configuring said subsequent gaming event as Keno.

Claim 22 - A method for gaming, the steps including:

enabling the gaming device upon receipt of a wager;

receiving from the player a target outcome;

generating outcomes;

comparing the generated outcomes with the target outcome; and

awarding credits according to a payable, should the generated outcome match the target outcome.

Claim 23 - A gaming device, comprising, in combination:

a display;

a processor operatively coupled to said display, including random output means appearing on said display, resulting in a plurality of outcomes;

means for accepting a target outcome from a player;

means for comparing each of said plurality of outcomes to said target outcome; and

award means for awarding a player if any of said plurality of outcomes matches said target outcome.

Claim 24 - A gaming device, comprising, in combination:

a display;

a processor operatively coupled to said display, including random output means appearing on said display, resulting in a plurality of outcomes for a first gaming event;

means for transferring a subset of said plurality of outcomes for said first gaming event to a second gaming event that is concurrent;

continuance means for engaging said means for transferring outcomes to said second gaming event during a plurality of said first gaming events;

first award means for issuing awards according to said first gaming event; and

second award means for issuing awards according to said second gaming event.

Claim 25 - A gaming device, comprising, in combination:

a display;

a processor operatively coupled to said display, including random output means appearing on said display, resulting in a plurality of outcomes for a first gaming event;

means for playing a second gaming event concurrently with a plurality of said first gaming events; and

saving means to store the state of play on encoded moveable media, including means to dispense said encoded moveable media for use at a later time.

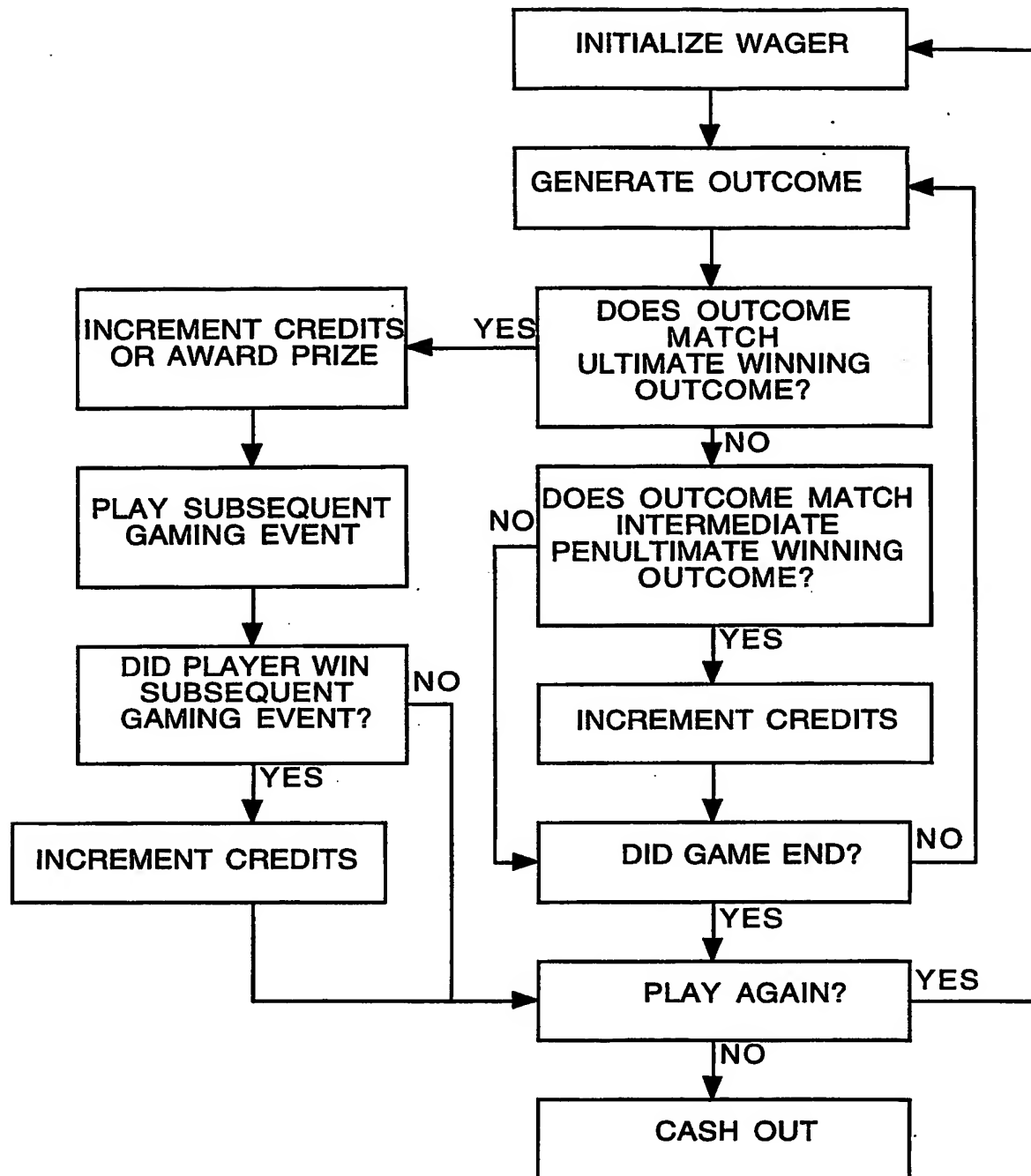


Figure 1

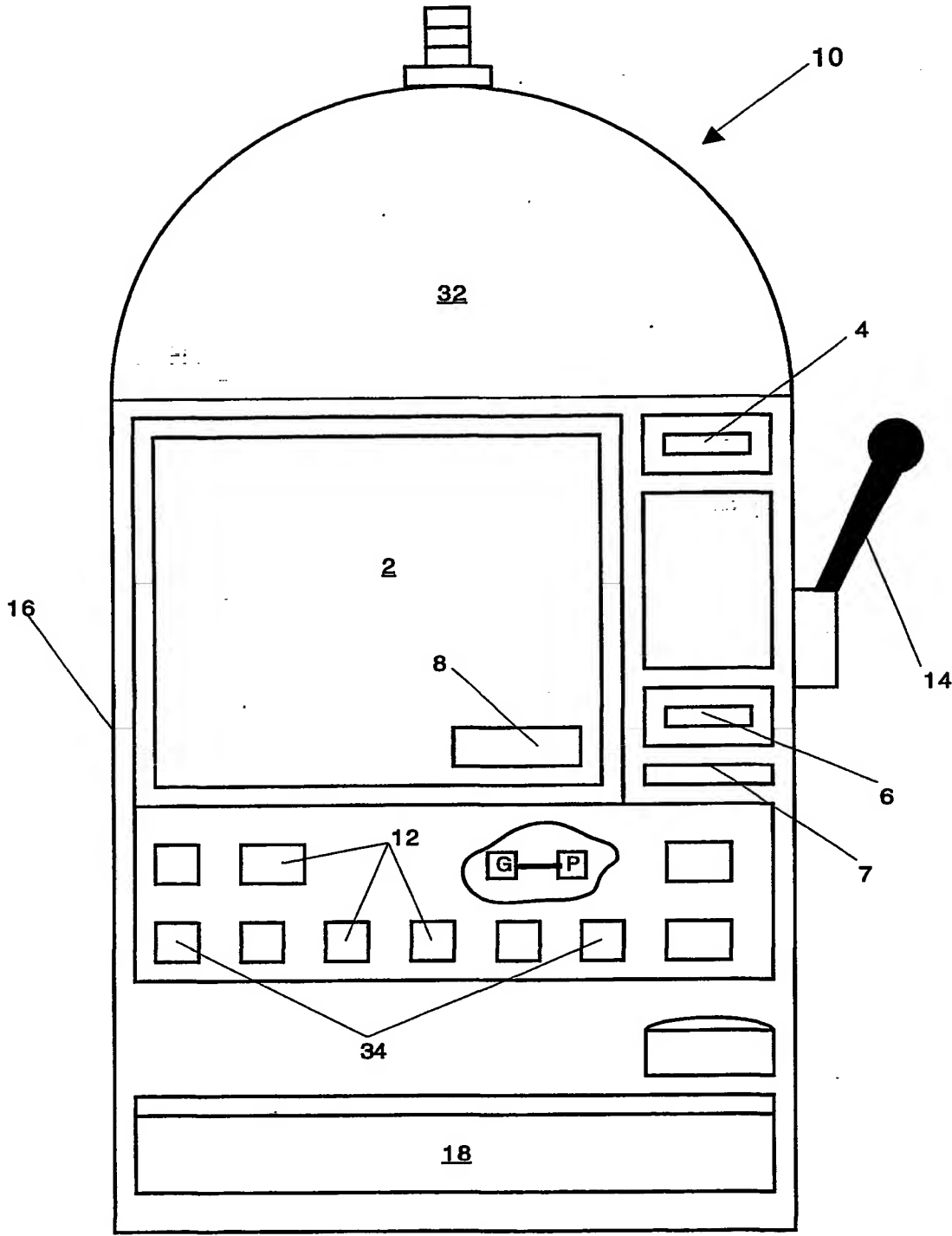


Figure 2

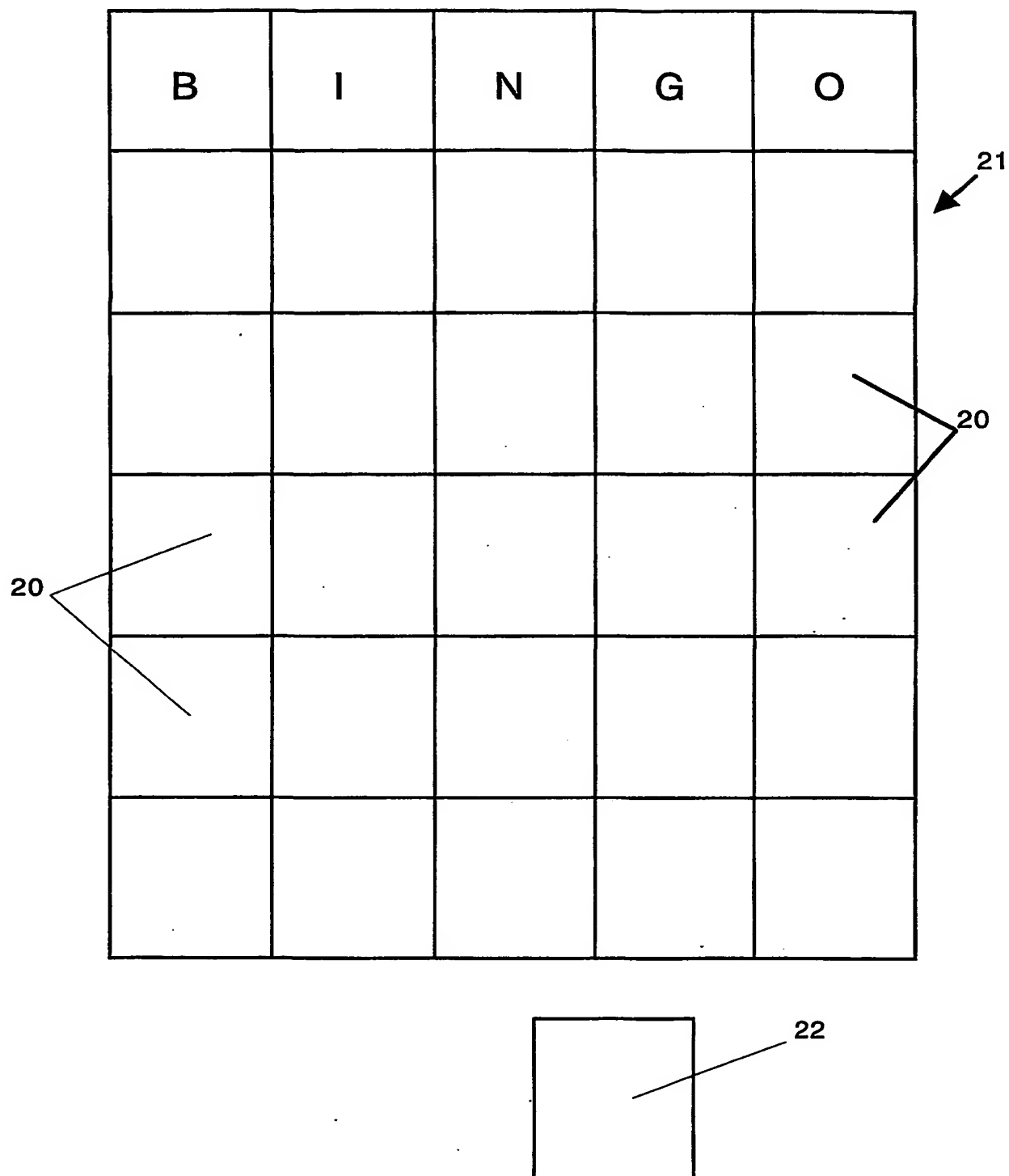


Figure 3



Figure 4

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US01/28742

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) :A63F 9/24

US CL :463/25

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 463/25, 16, 17, 18, 19, 30, 25, 26, 27

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EAST

games, gaming events, winning outcome, award

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5,935,002 A (<i>FALCIGLIA</i>) 10 August 1999, Figs. 1 & 4; col. 1, lines 49-52; col. 2, lines 22-27; col. 4, lines 52-58; col. 5, lines 21-40; and col. 6, lines 1-22	1-19
Y	US 5,547,202 A (<i>TSUMURA</i>) 20 August 1996, See col. 11, lines 9-42.	1-19

☐ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

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Date of the actual completion of the international search

02 NOVEMBER 2001

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